SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES

0115-22003

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY					5. LEASE DESIGNATION AND SERIAL NO.
					NM 0606
APPLICATION	N FOR PERMIT T	O DRILL, DEE	PEN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
a. TYPE OF WORK		DEEPEN	PLUG BAG	יע רו	7. UNIT AGREEMENT NAME
DKI b. Type of well	LL 🖾	DEEPEN [_]	PLUG BAC	-n -	
	S OTHER		SINGLE X MULTIP	re 🗌	8. FARM OR LEASE NAME
. NAME OF OPERATOR	, , , , , , , , , , , , , , , , , , , ,				Atlantic A
	tural Gas Com	pany			9. WELL NO.
. ADDRESS OF OPERATOR				[_	2A
PO Box 990,	, Farmington,	NM 87401			10. FIELD AND POOL, OR WILDCAT
. LOCATION OF WELL (Re At surface	eport location clearly and		State requirements.*)	-	Blanco Mesa Verde
P	860'S, 87	0.E			11. SEC., T., E., M., OR BLE. AND SURVEY OR AREA Sec. 28, T-31-N, R-10-
At proposed prod. zone					NMPM
	AND DIRECTION FROM NEAR		ICE*		12. COUNTY OR PARISH 13. STATE
	of Aztec, NM				San Juan NM
5. DISTANCE FROM PROPO LOCATION TO NEAREST			NO. OF ACRES IN LEASE		F ACRES ASSIGNED IS WELL 7 301.86
PROPERTY OR LEASE L (Also to nearest drig		960'	1760		
8. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		4000	1		Rotary
6165 GR	ether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*
3.	P	ROPOSED CASING A	ND CEMENTING PROGRA	AM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3#	200'	224	cu.ft. to circulate
8 3/4"	7"	20.0#	3240'		cu.ft.to cover Ojo Al
6 1/4"	4 1/2"line	r 10.5#	3090-5565'	431	cu.ft.to fill to 3090
_	•.				Verde formation.
A 3000 psi blind and p	WP and 6000 pipe rams wil	psi test do 1 be used f	uble gate pre or blow out p	venter revent	equipped with ion on this well.
This gas is	s dedicated.			1	
				(APR 12 1978 OIL CON. COM.
The $E/2$ of	Section 28 i	s dedicated	to this well	• '	OIL DIST. 3
one. If proposal is to	drill or deepen directions	proposal is to deepen o ally, give pertinent data	r plug back, give data on p a on subsurface locations a	resent produ nd measured	uctive zone and proposed new productive and true vertical depths. Give blowout
oreventer program, if an	$\overline{}$	•			
SIGNED SLIGH	Sradfu	CLOC TITLE_	Drilling	Clerk	April 7,1978
(This space for Fede	eral or State office use)				
PERMIT NO.			APPROVAL DATE		
APPROVED BYCONDITIONS OF APPROV	VAL. IF ANY:	TITLE _			DATE

*See Instructions On Reverse Side

NWU 3-423

MM ACC-

		All distances must be from the outer boundaries of the Section.							
Operator EL I	PASO NATURAL G	AS COMPANY	Lease ATLANT	IC A	(M)	1-0606)	Well No. 2A		
Unit Letter P	Section 28	Township 31-N	Range	10-W	County	SAN JUAN			
Actual Footage Loc 860		SOUTH line and	870	feel	from the	EAST	line		
Ground Level Elev. 6165		mation A VERDE	Pool BI	ANCO MESA			Icated Acreage: 301.86 - Acres		
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.									
	han one lease is nd royalty).	dedicated to the we	ll, outline	each and ide	ntify the o	wnership there	of (both as to working		
		ifferent ownership is mitization, force-pool		to the well,	have the i	nterests of all	owners been consoli-		
Yes	☐ No If an	nswer is "yes;" type	of consolid	ation	<u> </u>				
	is "no;" list the	owners and tract des	criptions w	hich have ac	tually bee	n consolidated	. (Use reverse side of		
No allowa	ble will be assign	or until a non-standa	rd unit, eli	ninating suc	h interests		itization, unitization, roved by the Commis-		
		$\mathbb{X}^{\times \times \times \times \times}$		××××××	$\sim\sim\sim$		RTIFICATION		
							y that the information con-		
	1			A #	z 🎖		is true and complete to the wledge and belief.		
	1		1	0		Name	Bradfuld		
	+				X	Drilling	Clerk		
	1	×	,	·			Natural Gas Co.		
			NM-06	506			1978		
		SECTION 28	1		×	Date			
-	<u> </u>	 8	<u> </u>	· · · · · · · · · · · · · · · · · · ·					
			1		×	·	ify that the well-location plat was plotted from field		
	1		•		×	notes of actua	of surveys made by me or		
			1	•	8		arrect to the best of my		
			1		🖔	know reage and	berief.		
	1		.	φ <u>-8</u>	70'	Date Surveyed JANUA	RY 3, 1974		
			1	0	×		ssional Engineer.		
			 	98		Karis	Million		
2 320 650	90 1320 1650 196	30 2310 2640 200	0 1500	1000 5		Certificate No.	1760		

P. O. BOX 990 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

Multi-Point Surface Use Plan

Atlantic A #2A

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2
- 4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines - Please refer to Maps No. 1 and No. 2. Map No. 2 shows the existing gas gathering lines. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from a water hole located Hart Canyon Water Well (NW 28-31-10)
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

- 7. Methods of Handling Waste Materials - All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1 will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.
- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed Mixture #2 will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted green (Federal Standard #595-34127)
- 11. Other Information The terrain is sandstone ledges with pinon and cedar growing on this site. Cattle graze the proposed project site.

Multi-Point Surface Use Plan

- 12. Operator's Representative W. D. Dawson, Post Office Box 990, Farmington, New Mexico 87401
- 13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by El Paso Natural Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

April 6, 1978

) C Walker

Project Drilling Engineer

DCW:pb

Operations Plan Atlantic A #2A

I. Location: 860'S, 870'E, Section 20, T-31-N, R-10-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 6165'GR

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	3040 '
		_	Ojo Alamo	1485'	Mesa Verde	4485'
			Kirtland	1595 '	Menefee	4700'
			Fruitland	2495 '	Point Lookout	5115 '
			Pic.Cliffs	2885 '	Total Depth	5565 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4475', 4690', 5105' and at Total Depth.
 Also gauge any noticeable increase in gas. Record all gauges in daily drilling report and on morning report.

III. Drilling:

A. Mud Program: mud from surface to 3240'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Prog	ram: Hole Size	Depth	Casing Size	Wt.&Grade
	13 3/4"	<u>Depth</u> 200'	9 5/8"	32.3# H-40
	8 3/4"	3240'	7"	20.0# K-55
	6 1/4"	3090-5565 '	4 1/2"	10.5# K-55

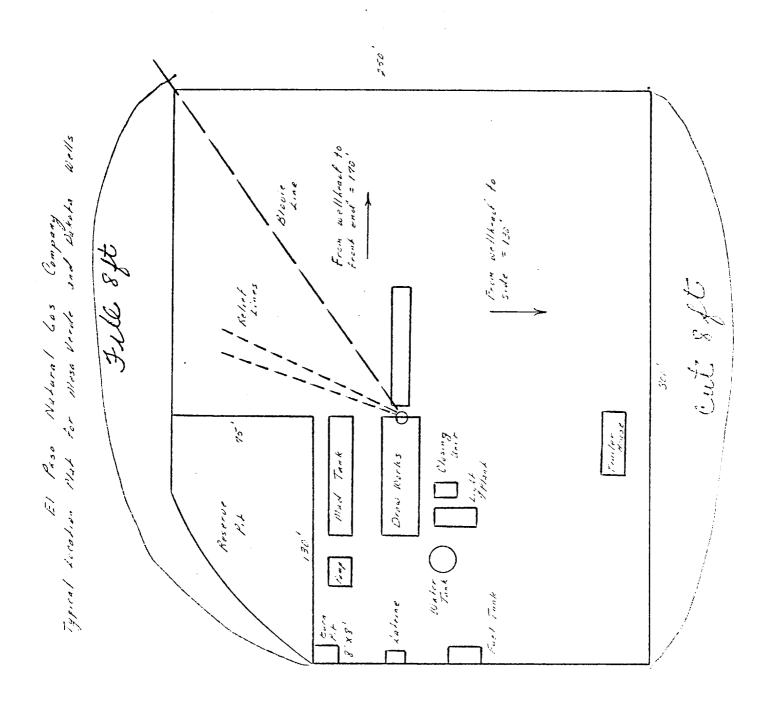
B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig. 102)

7" intermediate casing - Dowell guide shoe (fig. 50101) and Dowell self-fill insert float valve (fig. 53003), 5 B&W stabilizers (Prod. No. 637085) every other joint above shoe. Run float two joints above shoe.

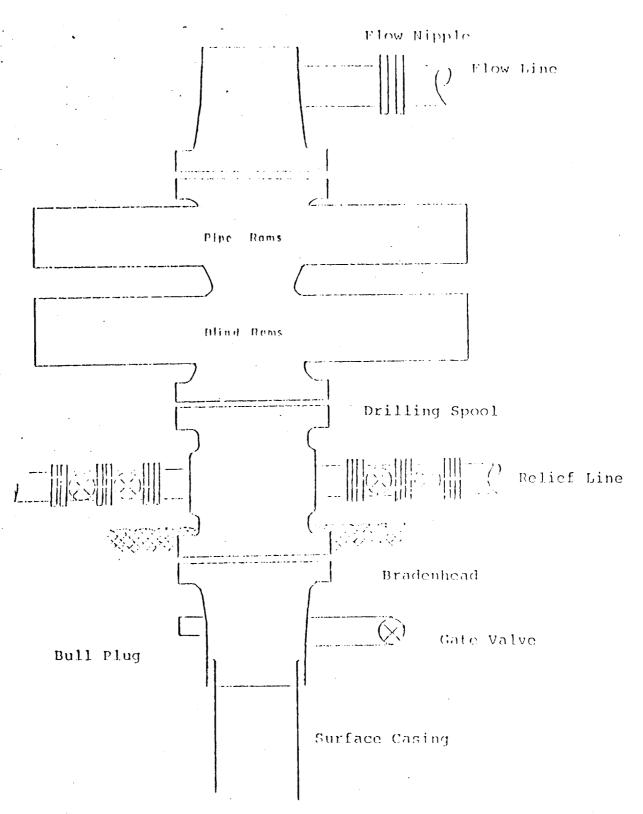
- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 5565' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

V. Cementing:

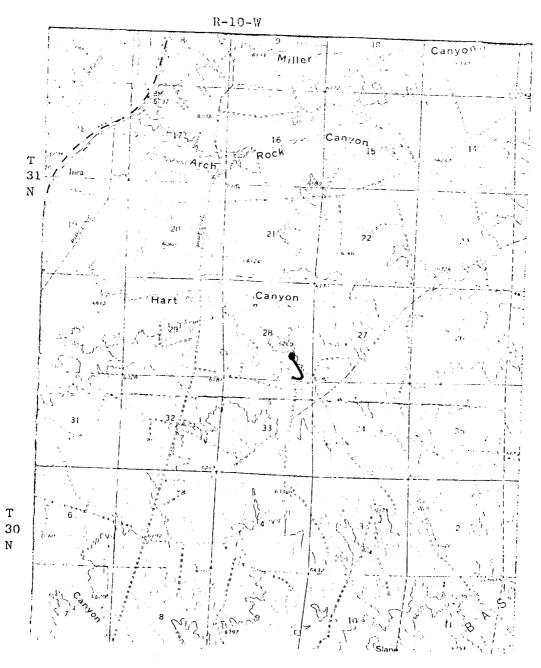
- 9 5/8" surface casing use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 175 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (402 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.
- 4 1/2" liner precede cement with 20 barrels of gel water (2 sks. gel) Cement with 310 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (431 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



Typical B.O.F. Installation for Mesa Verde Well



Series 900 Double Gate BOP, rated at 3000 psi Working Pressure When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line



MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS			
EXISTING	PIPELINES	-+-	+	-
EXISTING	ROAD > PIPELI	MB-4-	-4	_ L .
PROPOSED				
PROPOSED	PIPELIERS	+	+	+
TROPOUR	क्रांक्ष्यक । क्षांक्षां भूत	ث الله		
			-1	- (